

What is claimed is:

1. A plasma display, comprising:

a plasma display panel, which includes:

first and second substrates arranged to face
5 with each other;

scanning electrodes and common electrodes
alternately provided with each other on a side of
said first substrate facing said second substrate and
extending in a first direction; and

10 data electrodes provided on a side of said
second substrate facing said first substrate and
extending in a second direction across said first
direction;

data drivers which apply data pulse to said data
15 electrodes;

a control circuit which controls operation of said
data drivers based on a video signal; and

a protection signal output circuit which outputs a
first protection signal to said control circuit when sum of
20 currents supplied from said data drivers to said data
electrodes within a time equal to one sub-field or more to
less than one frame exceeds a previously set first specified
current value, said first protection signal restraining the
operation of said data drivers.

25 2. The plasma display according to claim 1, wherein
said protection signal output circuit judges whether or not
a current supplied from at least one data driver among said
data drivers to said data electrode has exceeded a

10054363 "012502"

previously set second specified current value, and outputs a second protection signal to said control circuit when the current supplied to said one data driver has exceeded said second specified current value, said second protection
5 signal restraining the operation of said one data driver.

3. A plasma display, comprising:

a plasma display panel, which includes:

first and second substrates arranged to face
with each other;

10 scanning electrodes and common electrodes
alternately provided with each other on a side of
said first substrate facing said second substrate and
extending in a first direction; and

15 data electrodes provided on a side of said
second substrate facing said first substrate and
extending in a second direction across said first
direction;

data drivers which apply data pulse to said data
electrodes;

20 a control circuit which controls operation of said
data drivers based on a video signal; and

a protection signal output circuit which judges
whether or not a current supplied from at least one data
driver among said data drivers to said data electrode has
25 exceeded a previously set second specified current value,
and outputs a second protection signal to said control
circuit when the current supplied to said one data driver
has exceeded said second specified current value, said

10054863-012502

second protection signal restraining the operation of said one data driver.

4. The plasma display according to claim 2, wherein said protection signal output circuit starts said judgment
5 when a temperature around said data drivers exceeds a previously set specified temperature.

5. The plasma display according to claim 3, wherein said protection signal output circuit starts said judgment
10 when a temperature around said data drivers exceeds a previously set specified temperature.

6. The plasma display according to claim 1, wherein said control circuit sequentially deletes sub-fields from a least significant bit among sub-fields which compose one frame with an input of said first protection signal as a
15 trigger.

7. The plasma display according to claim 3, wherein said control circuit sequentially deletes sub-fields from a least significant bit among sub-fields which compose one frame with an input of said second protection signal as a
20 trigger.

8. The plasma display according to claim 1, wherein said control circuit allows said data drivers to apply equal data pulses to adjacent two scanning electrodes among said scanning electrodes with an input of said first protection
25 signal as a trigger.

9. The plasma display according to claim 3, wherein said control circuit allows said data drivers to apply equal data pulses to adjacent two scanning electrodes among said

2054863-012502

scanning electrodes with an input of said second protection signal as a trigger.

10. The plasma display according to claim 1, wherein said protection signal output circuit is composed of a
5 microcomputer.

11. The plasma display according to claim 3, wherein said protection signal output circuit is composed of a microcomputer.

12. A driving method of a plasma display, comprising
10 the step of:

restraining an operation of data drivers when sum of currents supplied from said data drivers to data electrodes within a time equal to one sub-field or more to less than one frame exceeds a previously set first specified current
15 value.

13. The driving method of a plasma display according to claim 12, further comprising the steps of:

judging whether or not a current supplied from at least one data driver among said data drivers to said data
20 electrodes has exceeded a second specified current value;
and

restraining, when the current supplied to said one data driver exceeds said second specified current value, the operation of said one data driver.

25 14. A driving method of a plasma display, comprising the steps of:

judging whether or not a current supplied from at least one data driver among data drivers to data electrodes

2054863.012501

has exceeded a second specified current value; and

restraining, when the current supplied to said one data driver exceeds said second specified current value, the operation of said one data driver.

5 15. The driving method of a plasma display according to claim 13, wherein said judgment starts when a temperature around said data drivers exceeds a previously set specified temperature.

10 16. The driving method of a plasma display according to claim 14, wherein said judgment starts when a temperature around said data drivers exceeds a previously set specified temperature.

15 17. The driving method of a plasma display according to claim 12, wherein said restraining the operation of said drivers further comprises the step of deleting sub-fields sequentially from a least significant bit among sub-fields that compose one frame.

20 18. The driving method of a plasma display according to claim 14, wherein said restraining the operation of said drivers further comprises the step of deleting sub-fields sequentially from a least significant bit among sub-fields that compose one frame.

25 19. The driving method of a plasma display according to claim 12, wherein said restraining the operation of said one data driver further comprises the step of applying equal data pulses to adjacent two scanning electrodes.

20. The driving method of a plasma display according to claim 14, wherein said restraining the operation of said

10054863.012502

one data driver further comprises the step of applying equal data pulses to adjacent two scanning electrodes.

205210" E984500F